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**Flat or capillary membrane manufactured from a mixture of polyvinylidene fluoride and a second by chemical reaction hydrophilable polymer**

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**Cited documents:**

EP0245000  
EP0186758  
DE2735887  
JP548669

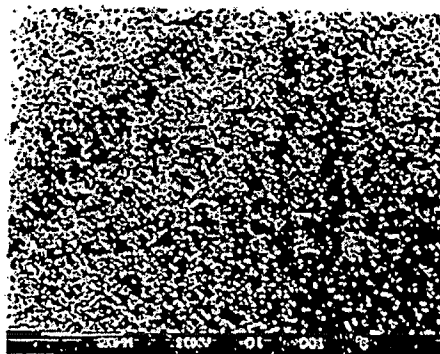
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Abstract not available for EP0407900

Abstract of corresponding document: **US5066401**

Membranes are based on a homogeneous mixture of polyvinylidene fluoride and a second polymer which can be rendered hydrophilic by chemical reaction. The membranes contain 70 to 98 percent by weight of polyvinylidene fluoride and 2 to 30 percent by weight of a polymer formed essentially from polymethyl and/or polyethyl acrylate, and have a maximum pore size in the range from 0.005 to 10  $\mu$ m. They can be rendered hydrophilic by means of at least partial hydrolysis, at least partial transesterification with an alcohol which is at least trihydric and contains 3 to 12 carbon atoms, and/or at least partial aminolysis with an amino compound having 2 to 8 carbon atoms. The flat or capillary membranes which have been rendered hydrophilic can contain on their total surface 0.001 to 10 milliequivalents/g of membrane, preferably 0.01 to 5 m equivalents/g of membrane, of -COOH, -OH or -NH<sub>2</sub> groups or corresponding mixtures of these hydrophilic functional groups. Such membranes can be used, in particular, for immobilizing biochemically active compounds.

PVPF flat membranes WM 5



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